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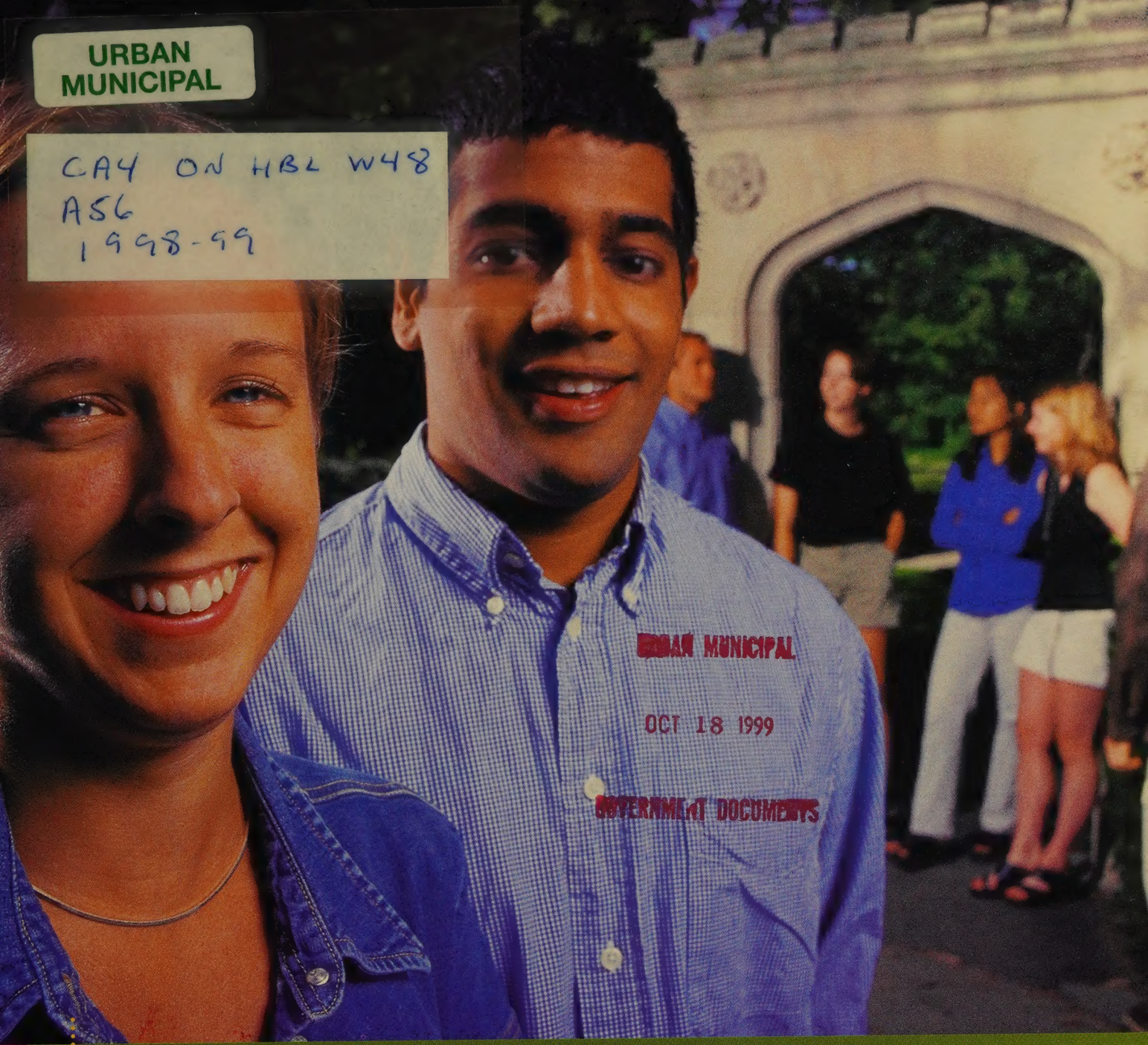

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GOVERNMENT DOCUMENTS

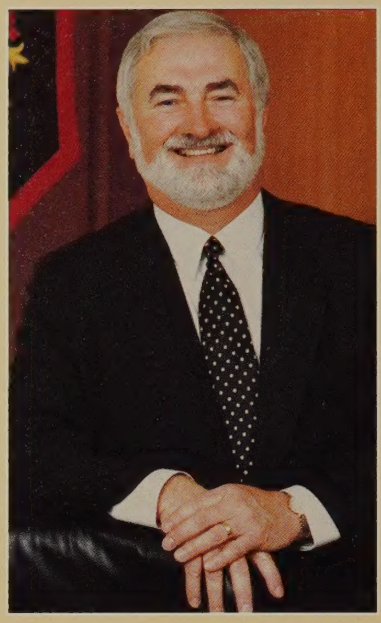
CHANGING TOMORROW TODAY

McMaster University

1998-99 ANNUAL REPORT

McMaster is changing tomorrow today

SEPTEMBER 29 marked the launch of McMaster University's Changing Tomorrow Today Campaign, an initiative to raise $100 million in private funds to support critical developments in the way we educate young minds, create new knowledge and contribute to social betterment. We celebrate the launch in this year's Annual Report by focusing on the individuals, corporations and foundations who have stepped forward in support of McMaster and our commitment to developing the leaders of tomorrow.



McMaster has attracted an outstanding group of volunteers to lead us through our campaign. The campaign cabinet, led by McMaster graduate L. R. (Red) Wilson, chair of BCE Inc., are today's leaders.

They are deeply committed to providing the necessary support so that a full and rich university experience is available to all students who qualify to attend McMaster.

I am delighted to be part of the campaign team as faculty, staff, students and volunteers work together to make the Changing Tomorrow Today Campaign a resounding success.

This Annual Report highlights just a few of the projects that are part of the campaign case — areas of strength in both research and education which have won the University international acclaim. We are proud to present them to you as a small sample of the excellent programs, people and facilities that make McMaster a great university.

Peter George, BA, MA, PhD
President & Vice-Chancellor,
McMaster University
Hamilton, Ontario

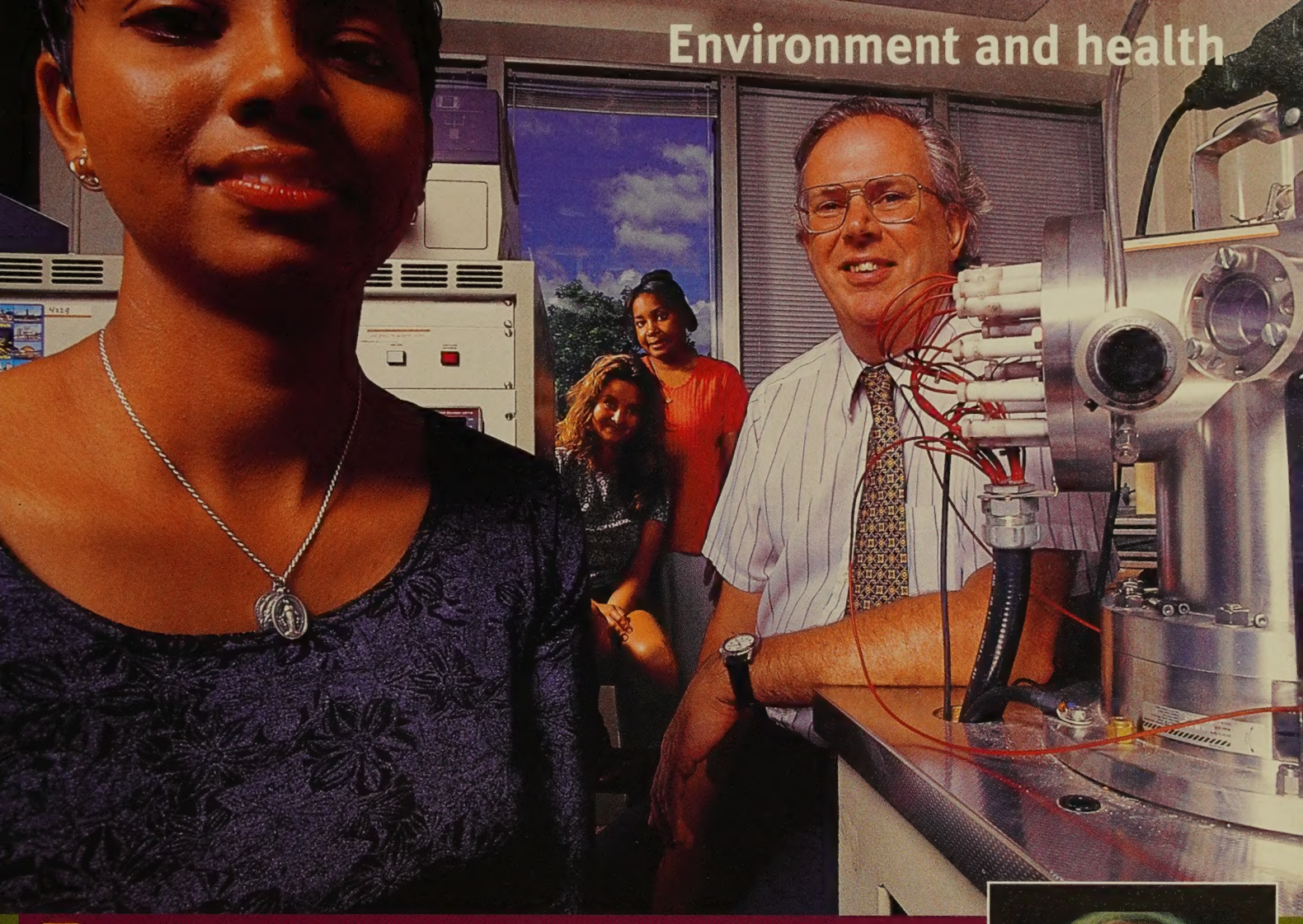
ACADEMIC STAFF 1998 (includes 26 part-time)	1,157
SUPPORT STAFF 1998 (includes 348 part-time)	2,223
DEGREES GRANTED 1998	
Bachelor's	3,028
Master's	462
Doctoral	120
Doctor of Medicine	107
STUDENT ENROLMENT 1998-99	
Undergraduate	
Full-time	11,762
Part-time	2,368
Summer	3,529
Graduate	
Full-time	1,568
Part-time	583
Continuing Education	2,525
Undergraduate Male/Female Ratio:	43.3/56.7

Cover photo: McMaster students (left to right) Sarah Donovan (sociology), Manu Rangachari (arts & science), Dave Kuzmanovich (geography), Devon Downie (commerce), Myle Truong (psychology), Lisa Madden (English and psychology) and Evan Jones (arts & science) were photographed by Glenn Lowson near the Edwards Arch on the University campus.

Income (000's)	**1997-98**		**1998-99**	
Government Grants	$98,234	27.7%	$99,096	25.9%
Tuition	52,808	14.9%	57,204	15.0%
Endowments	54,981	15.5%	56,531	14.8%
Other Income	25,709	7.2%	31,837	8.3%
Research	78,660	22.1%	81,380	21.3%
Ancillary Operations	40,569	11.4%	44,280	11.6%
Capital	4,179	1.2%	11,559	3.0%
	$355,140		**$381,887**	

Expenditures (000's)	**1997-98**		**1998-99**	
Instruction	$114,402	36.2%	$129,831	37.8%
Student & Academic Services	26,768	8.5%	19,842	5.8%
Library	11,854	3.8%	12,704	3.7%
Scholarships & Bursaries	8,827	2.8%	11,153	3.2%
Physical Plant	16,823	5.3%	16,781	4.9%
Administration & Fundraising	13,016	4.1%	19,122	5.6%
Research	78,660	24.9%	81,961	23.9%
Ancillary Operations	39,688	12.6%	43,391	12.6%
Capital	5,252	1.7%	8,377	2.4%
Works of Art	596	0.2%	382	0.1%
Total Expenditures Before One-Time Adjustments	315,886		343,544	
One-Time Items (Early Retirement, Undistributed Pension Costs)	(2,841)		(8,700)	
Total Expenditures After One-Time Adjustments	**$313,045**		**$334,844**	

Environment and health



International recognition of McMaster's excellence in environmental research won the University the honour of being the site of the only North American campus of the Tokyo-based United Nations University.

McMaster is now the headquarters for training and research in water, health and the environment, particularly in relation to developing nations.

To further study the relationship between water supply and quality, and biophysical and psychosocial aspects of human health, the noted financier and benefactor of McMaster, Stephen A. Jarislowsky, has endowed a professorial chair, supporting a senior scientist with environmentally relevant expertise in the physical or life sciences.

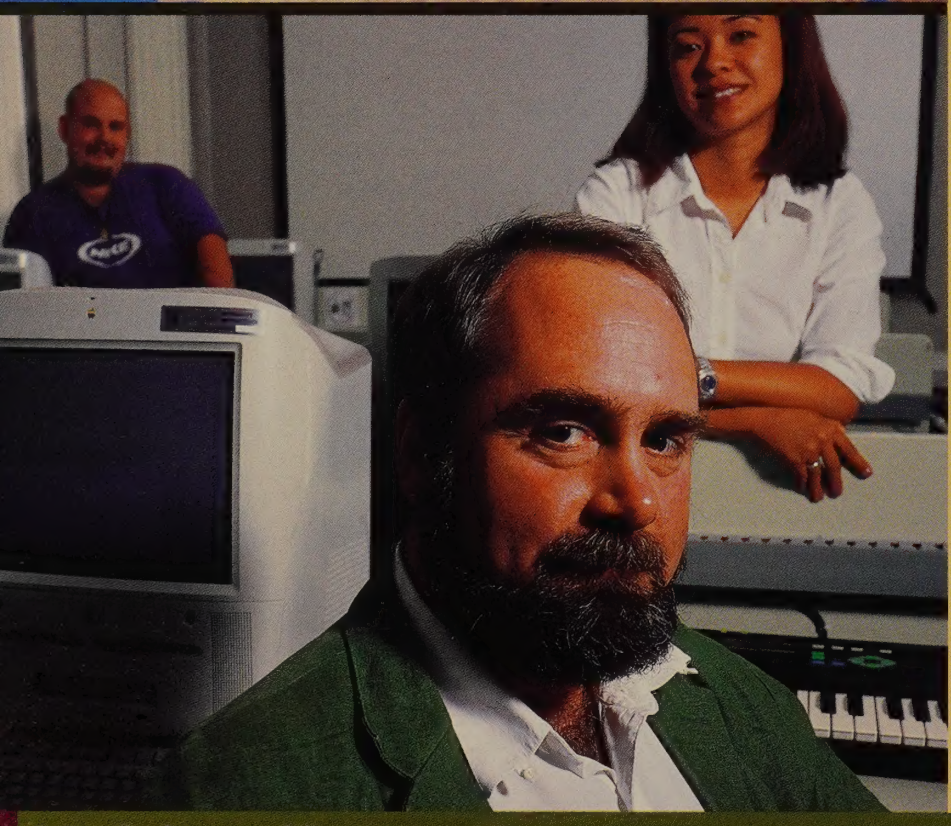
The Stephen A. Jarislowsky Chair in Environment and Health is professor of chemistry Dr. Brian McCarry (above, right, with his research group — left to right, chemistry PhD candidates Suzanne Ackloo and Adrienne Boden and master of science candidate Lena Andrew) who has established a national and international reputation for his work on the development and application of new tools to assess the impacts of chemical substances on the environment.

His particular focus has been on particulate matter, in the air and in sediments in creeks and harbours, with emphasis on those substances that have deleterious effects on human health. "Brian's work, particularly that related to the Plastimet fire, has earned him and McMaster considerable respect and credibility in the environmental community," says McMaster dean of science Dr. Peter Sutherland.

Through the Chair in Environment and Health, McMaster will graduate researchers and teachers who will be on the front line of studies in the environment and its relation to health.

"McMaster University is an ideal school to teach and research environmental issues, especially water, being located on the Great Lakes. The chairs we finance aim at excellence. We back major figures in education who act as magnets for others of superior talent."

— Stephen Jarislowsky
Chair and CEO,
Jarislowsky Fraser Limited



Globalization studies

In 1997, the University identified "globalization and the human condition" as one of its six strategic priorities, and subsequently created the Institute on Globalization and the Human Condition as a catalyst for faculty research, as well as the Theme School on Globalization, Social Change and the Human Experience as an opportunity for undergraduate students to study this new phenomenon.

"These initiatives are enabling our faculty and students to examine the extraordinary changes that have occurred over the last 50 years in the way people relate to, and communicate with, one another," says professor of political science Dr. William Coleman, director of the new Institute. "Together they will discover new approaches to understanding the economic, social, political and cultural ramifications of globalization."

The University further proposes to establish an endowed Chair in Globalization, which will support the research efforts and academic leadership of an internationally recognized scholar.

Above, professor of sociology and associate director of the Institute on Globalization and the Human Condition Dr. Rhoda Howard (left) conducts an informal "summit" in McMaster's map library with two students in the Theme School on Globalization, Social Change and the Human Experience, Rabea Murtaza (centre) and Winnie Hsu (right).

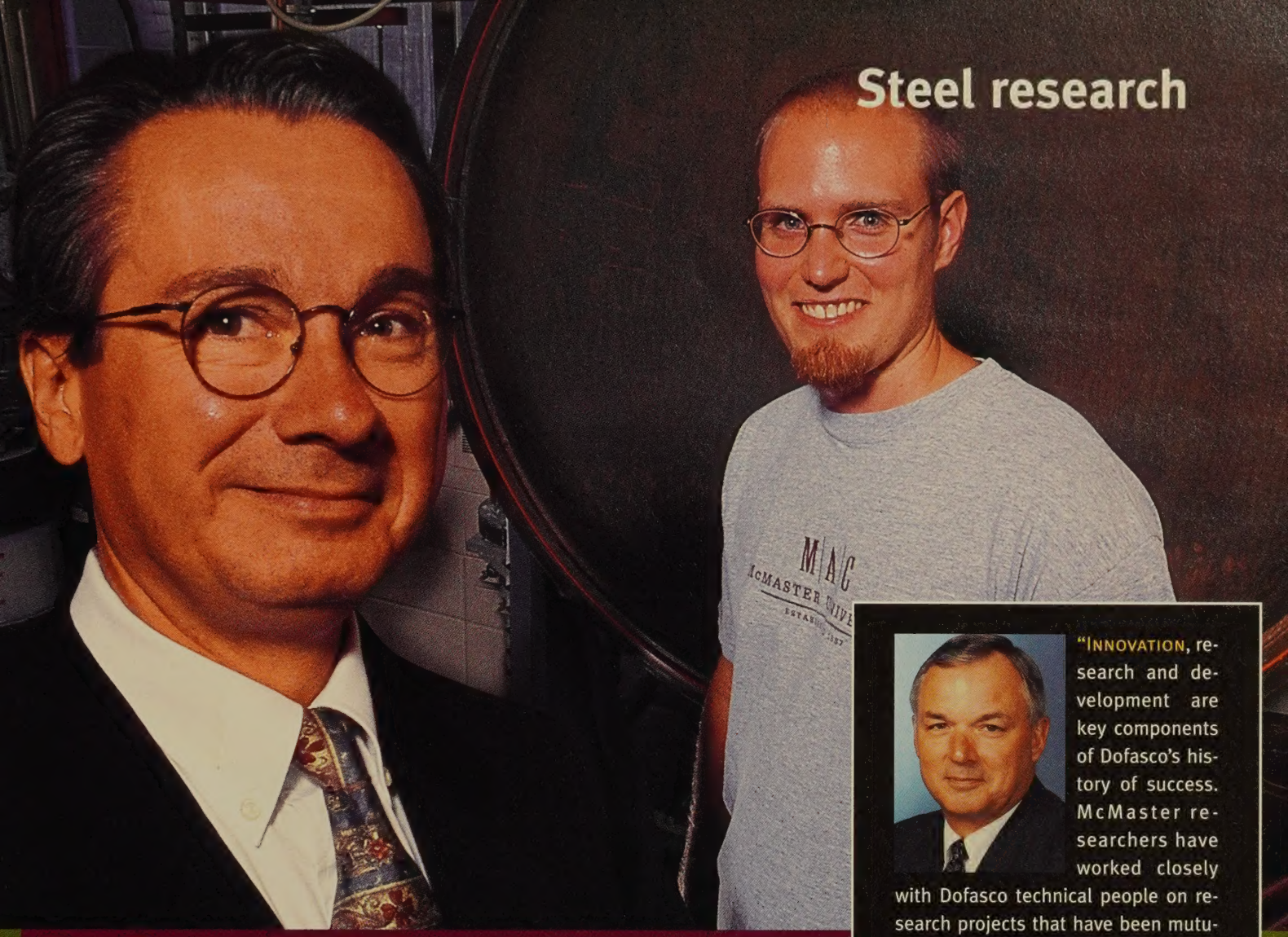
Multimedia studies

McMaster was the first university in Ontario to launch a Multimedia Program, a combined honours bachelor's degree through the Faculty of Humanities which unites new multimedia computing knowledge with traditional arts subjects.

"McMaster students will be the multimedia developers, the animators, the electronic musicians, the information developers and managers who can imagine, create and contribute to on-line culture. If there is going to be 'Canadian content' on the internet, we need to teach students to be able to create it and manage it," says Dr. Geoffrey Rockwell, director of the Humanities Computing Centre (above, foreground, in the Centre's Macintosh lab, with Level V philosophy and multimedia student James Dietrich, left, and Level III English and multimedia student Sachi Morris, right).

The University is committed to establishing an endowed Chair in Communications and Literacy, which will support a faculty member who will develop collaborative programs aimed at multimedia literacy, community literacy and workplace learning in the electronic age.

Steel research



McMaster's Faculty of Engineering is the most research-intensive engineering school in the country, and, located so close to Canada's two major steelmakers, Dofasco and Stelco, McMaster is a natural site for the development of a new Steel Research Centre. Dofasco Inc., a long-time supporter of the University, has recently enhanced this initiative by establishing two research chairs, one in ferrous metallurgy and the other in process automation and information technology. The Dofasco Chair in Ferrous Metallurgy will be held by Dr. Gord Irons, pictured above, left, with fourth-year materials engineering & management student Neal Pyke in front of the vacuum furnace in the induction melting facilities lab at Mac.

With Dofasco's continued support, Irons will conduct steelmaking research and explore methods to improve steel quality, reduce the cost of steelmaking and improve productivity. His work encompasses experimentation and mathematical modelling of oxygen steelmaking, ladle metallurgy, vacuum degassing and electric furnace steelmaking.

"This summer we've been working on a project for injector design for copper converting to make the conversion process better," says Neal Pyke. "Converting has been around forever, but Dr. Irons is working on a new process for it. There are lots of exciting things happening right now — not just in metallurgy, but in plastics and ceramics and many other materials."

"INNOVATION, research and development are key components of Dofasco's history of success. McMaster researchers have worked closely with Dofasco technical people on research projects that have been mutually beneficial, furthering the knowledge and technical capabilities of both organizations. By investing in this work, Dofasco will build greater intellectual capital and continue to increase its global competitiveness well into the next century."

— John Mayberry
President and CEO, Dofasco Inc.

"INDUSTRY must be ready to invest in education and research, now and over the long haul. It's this kind of partnership, all of us working together to define and implement educational and research programs that will support future economic prosperity and human resource development, that ensures the brightest economic future for Canada."

— James C. Alfano
President and CEO, Stelco Inc.

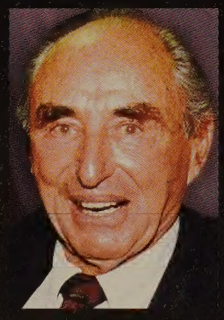
Neuroscience Research

Photo: Mark Zelinski Photographic Design

The Faculty of Health Sciences at McMaster is world renowned, not only for its approach to educating physicians, nurses, midwives and rehabilitation scientists, but also for the exciting and significant research conducted by its faculty members. Professor of psychiatry and behavioral neurosciences Dr. Sandra F. Witelson (left) is one of those stellar researchers, and her work recently captured headlines around the globe. She has had the opportunity to examine the anatomy of the entire brain of the 20th Century's greatest intellect, Albert Einstein, as part of her on-going studies of the neuroanatomical basis of thinking and brain lateralization, and of the localization of skills such as language and movement.

Dr. Witelson and her colleagues discovered fascinating differences in the size and structure of certain areas of Einstein's brain, which Dr. Witelson believes will be beneficial in revealing the mechanisms of brain function underlying normal cognition and in finding ways to cure diseases that afflict the brain.

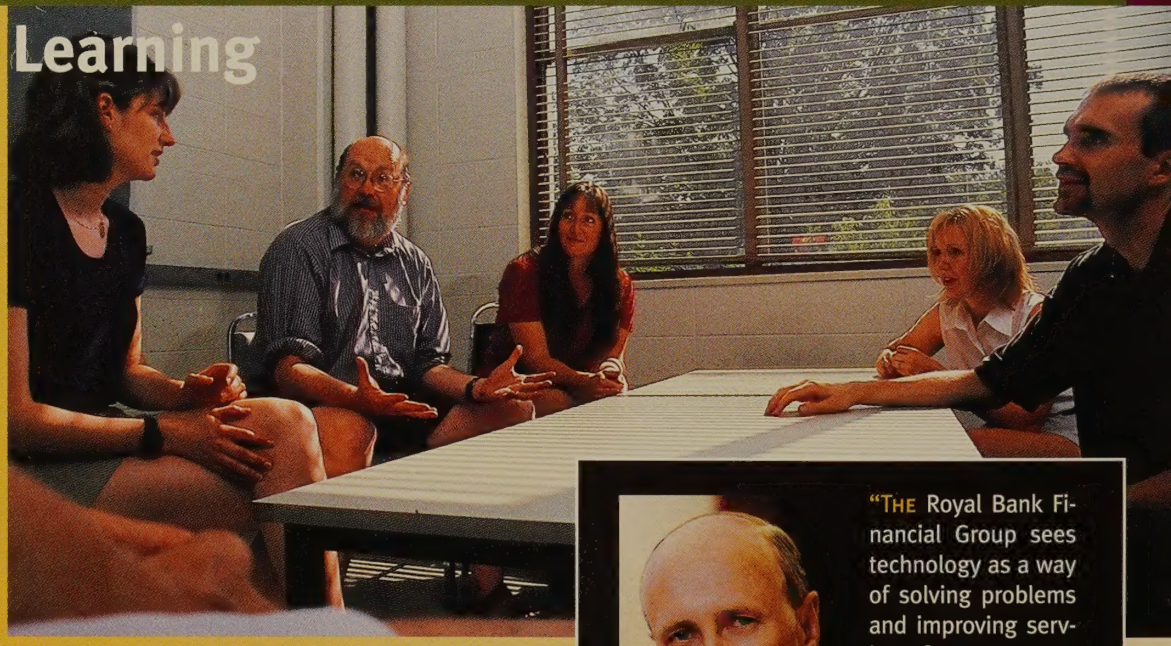
Hamilton philanthropist Irving Zucker has recognized the importance of Dr. Witelson's work with a major gift to the University to endow the Albert Einstein / Irving Zucker Chair in Neuroscience.



"I FELT that it was important to support McMaster because it is critical for Canada to have research of this calibre — it's good business practice. Without research, there is no progress."

— Irving Zucker, President, Revest Financial Ltd.

Leadership in Learning



From our cutting-edge approach to medical training to our innovative theme schools, McMaster continues to break new ground in teaching — to challenge the way students think and learn.

The McConnell Foundation and the Royal Bank Financial Group have recognized this trailblazing by providing the funds to found McMaster's Centre for Leadership in Learning, directed by professor of psychology Dr. Dick Day, a winner of numerous teaching awards throughout his 24-year career at McMaster. Dr. Day is pictured above, second from left, with (left to right) economics PhD candidate Adrienne ten Cate, anthropology PhD candidate Sylvia Abonyi, master of clinical health sciences candidate Pamela Baxter and history PhD candidate Daryl Baswick, all alumni of the Centre for Leadership in Learning's innovative "Principles and Practice of University Teaching," a course in teaching skills for teaching assistants and future professors, led by consultant Erika Kustra and the Centre's executive director, Dale Roy.

"THE Royal Bank Financial Group sees technology as a way of solving problems and improving service for our customers. Our investment in McMaster's Centre for Leadership in Learning represents our commitment to a learning environment in which technology is embraced and used to enhance students' critical-thinking and problem-solving skills."

— Anthony S. Fell Deputy Chair, Royal Bank Financial Group

Tools of the trade

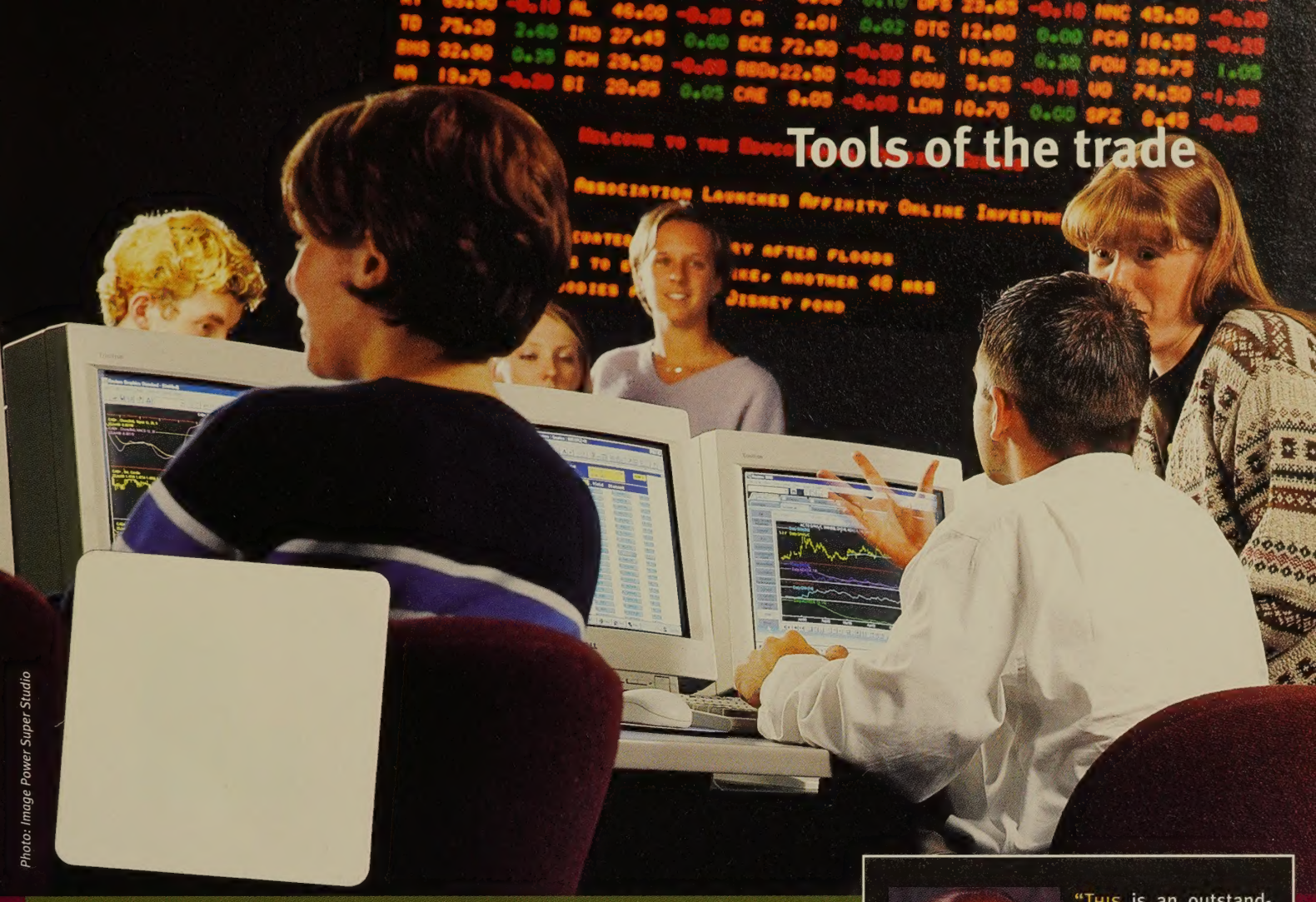


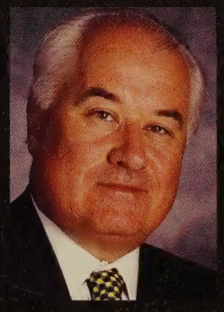
Photo: Image Power Super Studio

Students who want to learn how to become stock traders, investment advisors or risk managers need look no further than McMaster for hands-on experience: McMaster's Michael G. DeGroote School of Business is the site of the first and only simulated trading floor at a university in English-speaking Canada. "The skills students can acquire here from courses in securities trading will save employers six months to a year of training time," says John Siam, director of the Educational Trading Centre. "Here students have access to real-time stock and financial information — they can learn how the markets work and develop the skills demanded by today's volatile business environment."

The 1,000-sq.-ft. Centre resembles an actual trading floor in a brokerage, with 21 computer work stations and three Trans-Lux boards delivering "real-time" data feeds from all Canadian exchanges plus the Chicago Board of Trade, the New York Stock Exchange, Amex and Nasdaq.

The Trading Centre has been made possible through the generous support of McMaster's business partners, including a major gift from CIBC World Markets, a long-time supporter of the University. Through a special commercial arrangement, Reuters Information Services (Canada) Limited supplies extensive financial information and the Toronto Stock Exchange provides real-time data from the TSE, the Montreal Stock Exchange and other Canadian exchanges.

Above, McMaster students (left to right) Lee Schofield, Danielle Kindree, Courtney Burrill, Sarah Donovan, Tom Maduri and Robin Larmer learn about risk, high pressure and split-second decision-making in McMaster's Educational Trading Centre.



"This is an outstanding opportunity for students who want a career in financial services and an educational experience in a real trading room environment."

— Wayne C. Fox
President, CIBC World Markets Inc.

"The TSE supports and sponsors a variety of programs geared towards investor education and market policy analysis. We believe this initiative at McMaster provides a unique stock market learning environment."

— Richard Carleton
Vice-President,
Index and Market Data Services
Toronto Stock Exchange

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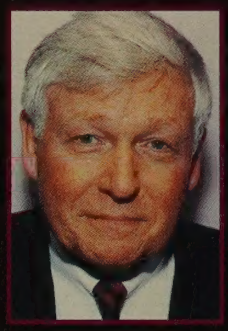
CHANGING TOMORROW TODAY



"McMaster's approach to learning is remarkable in its simplicity: to unlock students' potential and transform their sense of what is possible. It's a philosophy that promotes success for all students, and prepares each and every one, not merely to make his or her own way in the world, but to shape that world in positive and lasting ways. I believe our country's future deserves nothing less."

— L. R. (Red) Wilson
Chair, BCE Inc.
Chair, McMaster's "Changing Tomorrow Today" Campaign

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